



Point level | Vibration | Powders



Area of application

The point level sensors of the VEGAWAVE series are used as overfill protection and empty detection in silos and bunkers containing powdery bulk solids. Typical applications are silos containing powdery media such as flour, cement or sand as well as containers with fine-grained bulk materials such as plastic granules, fine gravel or styrofoam beads. The sensors are also suitable for safety-related applications up to SIL2.




Measuring principle

The tuning fork of VEGAWAVE is made to vibrate by a piezo drive. When the medium covers the fork, the vibration amplitude is damped. The electronics responds by triggering a switching signal.

Advantages

The sensors are robust and non-sensitive to buildup and function reliably in any position. They are easy to install and can be set up and commissioned without medium.



	VEGAWAVE S61	VEGAWAVE 61/63	VEGAWAVE 62
			
Application	Powders and fine-grained bulk solids	Powders and fine-grained bulk solids	Powders and fine-grained bulk solids
Version	Compact version or with tube extension up to 1.5 m	VEGAWAVE 61: Compact version VEGAWAVE 63: Tube extension up to 6 m	Suspension cable up to 80 m
Measuring range	Bulk solids from 8 g/l	Bulk solids from 8 g/l	Bulk solids from 8 g/l
Material	316L	316L, CarboCer coating	316L and PUR or FEP, CarboCer coating
Process fitting	Thread G1½	Thread G1½, 1½ NPT, flanges from DN 50, 2", hygienic fittings	Thread G1½, 1½ NPT, flanges from DN 50, 2", hygienic fittings
Process temperature	-50 ... +150 °C	-50 ... +250 °C	-40 ... +150 °C
Process pressure	-1 ... +25 bar (-100 ... +2500 kPa)	-1 ... +25 bar (-100 ... +2500 kPa)	-1 ... +6 bar (-100 ... +600 kPa)
Signal output	Relay, transistor output	Relay, transistor, two-wire, NAMUR output, contactless electronic switch	Relay, transistor, two-wire, NAMUR output, contactless electronic switch
Approvals	ATEX	ATEX, IEC, FM, CSA, EAC (GOST), UKR Sepro, SIL2	ATEX, IEC, FM, CSA, EAC (GOST), UKR Sepro, SIL2
Benefit	<ul style="list-style-type: none"> Minimal time and cost expenditure thanks to simple setup without medium Reliable function through medium-independent switching point Minimal costs for maintenance and servicing thanks to robust design 		

Controllers see page 64–69